

THAT WHICH IS CLAIMED IS:

1. A method of displaying cardiac information of a patient, comprising:  
obtaining a plurality of MRI cine loops of the heart of the patient at a plurality  
of heart rates, the plurality of cine loops including cine loops including frames of wall  
5 motion images and at least one cine loop including frames of perfusion images of at  
least one cardiac location; and  
simultaneously displaying both wall motion cine loops and the at least one  
perfusion cine loop.
- 10 2. The method of Claim 1, further comprising adjusting a number of  
frames in ones of the displayed wall motion cine loops and/or the perfusion cine loop  
so that the displayed wall motion cine loops and the perfusion cine loop have the  
same number of frames.
- 15 3. The method of Claim 1, wherein obtaining a plurality of MRI cine  
loops comprises acquiring a plurality of MRI cine loops while a stress test is  
administered to the patient.
- 20 4. The method of Claim 1, further comprising evaluating the displayed  
MRI cine loops to determine a presence or absence of coronary artery disease based  
on the displayed cine loops.
- 25 5. The method of Claim 1, wherein simultaneously displaying comprises  
simultaneously displaying a plurality of cine loops for differing locations associated  
with the heart of the patient for a single dosage of a stress inducing agent.
- 30 6. The method of Claim 1, wherein simultaneously displaying comprises  
simultaneously displaying a plurality of cine loops for a single location associated  
with the heart of the patient for differing dosages of a stress inducing agent.
7. The method of Claim 2, wherein adjusting comprises adding frames to  
and/or removing frames from at least one of the displayed wall motion cine loops or  
the perfusion cine loop.

8. The method of Claim 7, wherein adding frames comprises repeating frames of an MRI cine loop.

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9. The method of Claim 7, wherein the frames that are added to or removed from one of the displayed cine loops such that the added or removed frames are substantially evenly distributed throughout the one of the displayed cine loops.

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10. The method of Claim 1, wherein the wall motion MRI cine loops are compensated such that corresponding frames in each of the plurality of wall motion MRI cine loops correspond to a common portion within a cardiac cycle of the patient.

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11. The method of Claim 1, wherein adjusting the plurality of MRI cine loops comprises adjusting a duration of display of frames of a least one of the plurality of MRI cine loops such that each of the MRI cine loops has a common total duration.

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12. The method of Claim 11, wherein frames for which the duration is adjusted are evenly distributed throughout the adjusted MRI cine loop.

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13. A system for displaying cardiac information of a patient, comprising:  
means for obtaining a plurality of MRI cine loops of the heart of the patient at a plurality of heart rates, the plurality of cine loops including cine loops including frames of wall motion images and at least one cine loop including frames of perfusion images of at least one cardiac location; and

means for simultaneously displaying both wall motion cine loops and the at least one perfusion cine loop.

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14. A computer program product for displaying cardiac information of a patient, comprising:

a computer readable medium having computer readable program code embodied therein, the computer readable program code comprising:

computer readable program code configured to obtain a plurality of MRI cine loops of the heart of the patient at a plurality of heart rates, the plurality of cine loops including cine loops including frames of wall motion images and at least one cine loop including frames of perfusion images of at least one cardiac location; and

5 computer readable program code configured to simultaneously display both wall motion cine loops and the at least one perfusion cine loop.

15 15. A method of displaying cardiac information of a patient, comprising:  
obtaining a plurality of MRI cine loops of the heart of the patient at a plurality  
10 of heart rates, the plurality of cine loops including cine loops including frames of wall motion images;

obtaining at least one perfusion image of at least one cardiac location; and  
simultaneously displaying both wall motion cine loops and the at least one  
perfusion image.

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16. The method of Claim 15, wherein the at least one perfusion image  
comprises a plurality of perfusion images to provide a cine loop of perfusion images  
and wherein simultaneously displaying both wall motion cine loops and the at least  
one perfusion image comprises simultaneously displaying both wall motion cine loops  
20 and the at least one cine loop of perfusion images.

17. The method of Claim 15, wherein the at least one perfusion image  
comprises a myocardial delayed enhancement perfusion image.

25 18. A user interface for MRI imaging evaluation, comprising:  
at least one region configured to display a plurality of cine loops of MRI  
images of cardiac wall motion; and  
at least one region configured to display at least one MRI image of cardiac  
perfusion.

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19. The user interface of Claim 18, wherein the at least one region  
configured to display at least one MRI image of cardiac perfusion comprises at least

one region configured to display at least one cine loop of MRI images of cardiac perfusion.

20. The user interface of Claim 19, wherein the plurality of cine loops of  
5 MRI images of cardiac wall motion are synchronized to one another and the at least  
one cine loop of MRI images of cardiac perfusion.

21. The user interface of Claim 20, wherein at least one of the plurality of  
cine loops of MRI images of cardiac wall motion is registered to the at least one cine  
10 loop of MRI images of cardiac perfusion.